South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

October 12, 2010

Mr. Gerardo Rios – via email (R9AirPermits_sc@epa.gov)
U.S. EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105

Dear Mr. Rios:

Subject: Providence St. Joseph Medical Center (ID 08220) – Title V Permit Revision

Providence St. Joseph Medical Center has proposed to revise their Title V permit by replacing a burner on an existing boiler with a low NOx burner. This facility is a hospital (SIC 8060) located at 501 S. Buena Vista Street, Burbank, CA 91505. This proposed permit revision is considered as a "de minimis significant permit revision" to their Title V permit. Attached for your review are the evaluation and permit for the proposed revision.

If you have any questions or need additional information regarding the proposed permit revision, please call Francisco Escobar at (909) 396-2503.

Very truly yours,

Brian L. Yeh
Senior Manager
General Commercial and Energy Team
Engineering and Compliance

BLY:FLE:Cover Letter_08220

Attachments

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	PAGES 6	PAGE 1
ENGINEERING AND COMPLIANCE	APPL. NO. SEE BELOW	DATE 10/12/2010
	PROCESSED BY	CHECKED BY
APPLICATION PROCESSING AND CALCULATIONS	F. ESCOBAR	ALICE SANTOS

TITLE V FACILITY PERMIT / PERMIT RENEWAL

Applicant's Name: PROVIDENCE ST. JOSEPH MEDICAL CENTER (FACILITY ID # 8220)

Mailing Address: 501 S. BUENA VISTA ST., BURBANK, CA 91505

Equipment Location: SAME

BACKGROUND:

Providence Saint Joseph Medical Center (PSJMC) has 431 licensed beds, provides a full range of diagnostic, treatment, care and support and is the second-largest hospital serving the San Fernando and Santa Clarita Valleys.

PSJMC is a Title V facility and they submitted the following applications:

1. Modification - 21.0 mmBTU/hr Boiler - Natural Gas / Propane fired. **- A/N # 512274**
   This is a Burner replacement to their Boiler # 1, a Low NOX burner (Ref. P/O D61542).
2. Title V Permit Renewal **- A/N # 514425**
3. Title V Permit Revision **- A/N #512416**

EQUIPMENT DESCRIPTION: **- A/N 512274**

BOILER, NO. 1, CLEAVER BROOKS, FIRE-TUBE TYPE, MODEL NO. CBW 700-500, SERIAL NO. B015530-91, 21,000,000 BTU PER HOUR, WITH A LOW NOX BURNER, S.T. JOHNSON COMPANY, MODEL NO. NOXMATIC A-TYPE-500, NATURAL GAS OR PROPANE FIRED, AND A 15-HP COMBUSTION AIR BLOWER, 25-HP FORCED FLUE GAS RECIRCULATION SYSTEM.

PERMIT CONDITIONS: **- A/N 512274 - (See sample permit)**

PROCESS DESCRIPTION: **- (See original Evaluation)**

EMISSIONS DUE TO COMBUSTION - CALCULATIONS:

Since this is a burner replacement and the burner is being replaced with a low NOX burner, we need to recalculate NOX emissions.

1. Max. Operating Schedule - Boiler # 1: **24.0** hr/day **7** day/wk **52** week/yr **8,760** hr/yr
2. Burner rating - Boiler # 1: **21,000,000** BTU/Hr or **21.00** mmBTU/Hr

$$\text{Exhaust Flow Rate} = 21{,}000{,}000\ \cancel{\text{BTU}}/\text{hr} \times \frac{9{,}190\ \text{dscf}}{1{,}000{,}000\ \cancel{\text{BTU}}} \times \frac{1\ \cancel{\text{hr}}}{60\ \text{min}} = 3{,}216.50\ \text{dscf/min}$$

$$= 3{,}216.50\ \frac{\text{dscf}}{\cancel{\text{min}}} \times 60\ \frac{\cancel{\text{min}}}{\text{hr}} = 192{,}990.00\ \text{ft}^3/\text{hr}$$

The following AQMD Default Emission Factors will be used:

1. ROG = 5.50 lb/mmscf SOx = 0.60 lb/mmscf PM = 7.60 lb/mmscf
2. NOx = 9 ppmv [1] CO = 200 ppmv [1]

EMISSIONS CALCULATIONS (CONT' D):

Table 1 - For External Combustion Equipment

Fuel Type (Fuel Unit)	Organic Gases, (lb/unit)	Nitrogen Oxides, (lb/unit)	Sulfur Oxides, (lb/unit)	Carbon Monoxide, (lb/unit)	Particulate Matter, (lb/unit)
Natural Gas (mmscf) / Boilers Only	5.50	N/A[2]	0.60	N/A[2]	7.60
LPG, Propane, Butane - (1000 gal.)	0.26	N/A[2]	4.60	N/A[2]	0.28

Notes: 1. Rule 1146 requires that Group II boilers rated >2 and <75 MMBtu/hr meet 9 ppm NOx beginning 1/1/2012.

2. The applicant is replacing the burner to comply with NOX 9 ppm, per Rule 1146 before the 2012 deadline. Rule 1146 limits for CO = 400 ppm. This type of boiler has been known to meet 200 ppm. I will base my emissions on 200 ppm - (conservative assumption).

Before Modification: **Natural Gas** **Propane**

Burner rating: **21,000,000** BTU/Hr NOx = 30 ppmv NOx = 30 ppmv

After Modification:

Burner rating: **21,000,000** BTU/Hr NOx = 9 ppmv NOx = 9 ppmv

Natural Gas Nat. gas requirement $= \frac{21{,}000{,}000 \text{ BTU/hr}}{1{,}050 \text{ BTU/ft}^3} = 20{,}000.00 \frac{\text{ft}^3}{\text{hr}}$

ROG = 20,000.00 ft³/hr x $\frac{5.5 \text{ lb/ft}^3}{1{,}000{,}000}$ = 0.110 lb/hr = 2.640 lb/day

ROG = 0.110 lb/~~hr~~ x 8,760 ~~hr~~/yr = 963.60 lb/yr

30-day Ave: ROG = $\frac{0.110 \text{ lbs/~~hr~~} \times 730.0 \text{ ~~hr/month~~}}{30 \text{ day/~~month~~}}$ = 2.677 lb/day

NOx = 21,000,000 ~~BTU~~/hr x $\frac{8{,}710 \text{ dscf}}{1{,}000{,}000 \text{ ~~BTU~~}}$ = 182,910.00 dscf/hr

NOx = 182,910.00 ~~dscf~~/hr x $\frac{9 \text{ ppm}}{1{,}000{,}000}$ x $\frac{(20.9)}{(20.9 - 3.0)}$ x $\frac{46 \text{ lb/~~lb-mole~~}}{385 \text{ ~~scf/lb-mole~~}}$

NOx = 0.230 lb/hr = 5.512 lb/day = 2,011.75 lb/yr

30-day Ave: NOx = $\frac{0.230 \text{ lbs/~~hr~~} \times 730.0 \text{ ~~hr/month~~}}{30 \text{ day/~~month~~}}$ = 5.588 lb/day

SOx = 20,000.00 ft³/hr x $\frac{0.6 \text{ lb/ft}^3}{1{,}000{,}000}$ = 1.200E-02 lb/hr = 0.288 lb/day

SOx = 1.200E-02 lb/~~hr~~ x 8,760 ~~hr~~/yr = 105.12 lb/yr

EMISSIONS CALCULATIONS (CONT' D):

30-day Ave: $SOx = \frac{0.012 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 0.292 \text{ lb/day}$

$CO = 21{,}000{,}000 \text{ BTU/hr} \times \frac{8{,}710 \text{ dscf}}{1{,}000{,}000 \text{ BTU}} = 182{,}910.00 \text{ dscf/hr}$

$CO = 182{,}910.00 \text{ dscf/hr} \times \frac{200 \text{ ppm}}{1{,}000{,}000} \times \frac{(20.9)}{(20.9 - 3.0)} \times \frac{28 \text{ lb/lb-mole}}{385 \text{ scf/lb-mole}}$

CO = 3.11 lb/hr = 74.554 lb/day = 27,212.10 lb/yr

30-day Ave: $CO = \frac{3.106 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 75.589 \text{ lb/day}$

$PM = 20{,}000.00 \text{ ft}^3\text{/hr} \times \frac{7.60}{1{,}000{,}000} \text{ lb/ft}^3 = 0.152 \text{ lb/hr} = 3.648 \text{ lb/day}$

PM = 0.152 lb/hr x 8,760 hr/yr = 1,331.52 lb/yr

30-day Ave: $PM = \frac{0.152 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 3.699 \text{ lb/day}$

Propane Burner rating: **2,100,000** BTU/Hr

$ROG = 192{,}990.00 \text{ ft}^3\text{/hr} \times \frac{0.26}{1{,}000{,}000} \text{ lb/ft}^3 = 0.050 \text{ lb/hr} = 1.204 \text{ lb/day}$

ROG = 0.050 lb/hr x 8,760 hr/yr = 439.55 lb/yr

30-day Ave: $ROG = \frac{0.050 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 1.221 \text{ lb/day}$

$NOx = 21{,}000{,}000 \text{ BTU/hr} \times \frac{9{,}190 \text{ dscf}}{1{,}000{,}000 \text{ BTU}} = 192{,}990.00 \text{ dscf/hr}$

$NOx = 192{,}990.00 \text{ dscf/hr} \times \frac{9 \text{ ppm}}{1{,}000{,}000} \times \frac{(20.9)}{(20.9 - 3.0)} \times \frac{46 \text{ lb/lb-mole}}{385 \text{ scf/lb-mole}}$

NOx = 0.242 lb/hr = 5.815 lb/day = 2,122.62 lb/yr

30-day Ave: $NOx = \frac{0.242 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 5.896 \text{ lb/day}$

$SOx = 20{,}000.00 \text{ ft}^3\text{/hr} \times \frac{4.60}{1{,}000{,}000} \text{ lb/ft}^3 = 9.200\text{E-}02 \text{ lb/hr} = 2.208 \text{ lb/day}$

SOx = 9.200E-02 lb/hr x 8,760 hr/yr = 805.92 lb/yr

EMISSIONS CALCULATIONS (CONT' D):

30-day Ave: $SOx = \frac{0.012 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 0.292 \text{ lb/day}$

$CO = 21{,}000{,}000 \text{ BTU/hr} \times \frac{8{,}710 \text{ dscf}}{1{,}000{,}000 \text{ BTU}} = 182{,}910.00 \text{ dscf/hr}$

$CO = 192{,}990.00 \text{ dscf/hr} \times \frac{200 \text{ ppm}}{1{,}000{,}000} \times \frac{(20.9)}{(20.9 - 3.0)} \times \frac{28 \text{ lb/lb-mole}}{385 \text{ scf/lb-mole}}$

CO = 3.28 lb/hr = 78.662 lb/day = 28,711.74 lb/yr

30-day Ave: $CO = \frac{3.278 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 79.755 \text{ lb/day}$

$PM = 192{,}990.00 \text{ ft}^3\text{/hr} \times \frac{0.28 \text{ lb/ft}^3}{1{,}000{,}000} = 0.054 \text{ lb/hr} = 1.297 \text{ lb/day}$

PM = 0.054 lb/hr x 8,760 hr/yr = 473.37 lb/yr

30-day Ave: $PM = \frac{0.152 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 3.699 \text{ lb/day}$

Before Modification: - (natural gas)

$NOx = 21{,}000{,}000 \text{ BTU/hr} \times \frac{8{,}710 \text{ dscf}}{1{,}000{,}000 \text{ BTU}} = 182{,}910.00 \text{ dscf/hr}$

$NOx = 182{,}910.00 \text{ dscf/hr} \times \frac{30 \text{ ppm}}{1{,}000{,}000} \times \frac{(20.9)}{(20.9 - 3.0)} \times \frac{46 \text{ lb/lb-mole}}{385 \text{ scf/lb-mole}}$

NOx = 0.766 lb/hr = 18.372 lb/day = 6,705.84 lb/yr

30-day Ave: $NOx = \frac{0.766 \text{ lbs/hr} \times 730.0 \text{ hr/month}}{30 \text{ day/month}} = 18.627 \text{ lb/day}$

After Modification: - (natural gas)

NOx = 0.230 lb/hr = 5.512 lb/day = 2,011.75 lb/yr 30-day Ave: NOx = 5.588 lb/day

Change in emissions:

NOx = 0.766 lb/hr - 0.230 lb/hr = 0.536 lb/hr

NOx = 18.372 lb/day - 5.512 lb/day = 12.861 lb/day

HEALTH RISK ASSESSMENT - TIER - I & II ANALYSIS: - (N/A, See original evaluation)

EMISSIONS SUMMARY: - (Using Natural Gas)

A/N: 512274- Boiler # 1 (using natural gas)		HOURLY lb/hr	DAILY lb/day	30 DAY AVE lb/day	30 DAY NSR lb/day	ANNUAL lb/yr
R1 = R2	ROG	0.1100	2.64	2.677	3.00	963.60
R1 = R2	NOx	0.2297	5.51	5.588	6.00	2,011.75
R1 = R2	SOx	0.0120	0.29	0.292	0.00	105.12
R1 = R2	CO	3.1064	74.55	75.589	76.00	27,212.10
R1 = R2	PM	0.1520	3.65	3.699	4.00	1,331.52

A/N: 512274- Boiler # 1 (using propane)		HOURLY lb/hr	DAILY lb/day	30 DAY AVE lb/day	30 DAY NSR lb/day	ANNUAL lb/yr
R1 = R2	ROG	0.0502	1.20	1.221	1.00	439.55
R1 = R2	NOx	0.2423	5.82	5.896	6.00	2,122.62
R1 = R2	SOx	0.0920	2.21	0.292	0.00	805.92
R1 = R2	CO	3.2776	78.66	79.755	80.00	28,711.74
R1 = R2	PM	0.0540	1.30	3.699	4.00	473.37

		Current PTE		New PTE			
		HOURLY lbs./hr.	DAILY lbs./day	HOURLY lbs./hr.	DAILY lbs./day	Year ton/yr	
R1 = R2	ROG	0.0525	1.26	0.0525	1.26	0.23	< 4 ton/yr
R1 = R2	NOx	1.8150	43.559	1.2790	30.70	5.53	> 4 ton/yr
R1 = R2	SOx	0.2737	6.568	0.2737	6.57	1.18	< 4 ton/yr
R1 = R2	CO	0.1185	2.843	0.1185	2.84	0.51	< 29 ton/yr
R1 = R2	PM_{10}	0.0743	1.784	0.0743	1.78	0.32	< 4 ton/yr

With the exception of NOX, there is no change in emissions due to this burner modification on this boiler. There is a slight decrease in NOX emissions. The NSR emission entry will remain zero as was the case in the previous permit evaluation.

RULES EVALUATION:

Rule 212 **Standards for Approving Permits** - This equipment is in compliance with the following sections:

212(c)(1) - This equipment is not located within 1,000 ft from the outer boundary of a school.

212(c)(2) - Emissions from this equipment is below the daily threshold limits.

212(c)(3) - N/A, see original evaluation.

Rule 401 **Visible Emissions** - Compliance is expected from well maintained and properly operated equipment.

Rule 402 **Public Nuisance** - No nuisance is expected from well maintained equipment.

Rule 409 **Combustion Contaminants** - Compliance is expected.

Rule 431.1 **Sulfur Content of Gaseous Fuels** - The owner will buy gas from a gas utility company that must sell gas with less than 16 ppm of sulfur compounds (calculated as H_2S). Compliance is expected with this rule.

RULES EVALUATION (CONT' D):

Rule 1146 **Emissions of Oxides of Nitrogen From Industrial, Institutional, and Commercial Boilers, and Commercial Boilers, Steam Generators, and Process Heaters** - Compliance with Rule 1146 concentration limits of 30 ppmv for NOx and 50 ppmv for CO is expected when firing with natural gas. This will be verified due to Source Test Requirements specified by this rule.

Please note: Rule 1146 requires that Group II boilers rated >2 and <75 MMBtu/hr meet 9 ppm NOx beginning 1/1/2012.

Rule 1303 **(a)(1) - Best Available Control Technology (BACT)** - Requirements for Boilers:

Due to this modifications, this firetube boiler now meets the 9 ppm NOx limit required by Rule 1146, January 1, 2012 deadline.

This boiler will be permitted and will be Source Tested to confirm compliance with both Rule 1146 and permit requirements.

1303(b)(1) - The calculated emissions from the operation of the boiler are below the limits allowed as specified in Appendix A, Table A-1 of this rule as shown below:

(Combustion Sources > 20 mmBTU/hr but < 30 mmBTU/hr)

	Limit	Actual	Compliance	
NOx	1.26 lbs/hr	0.2297 lbs/hr	Yes	Modeling is not Required
CO	69.30 lbs/hr	3.1064 lbs/hr	Yes	Modeling is not Required
PM_{10}	7.60 lbs/hr	0.1520 lbs/hr	Yes	Modeling is not Required

1303(b)(2)(A) - Offsets - The Boiler is exempt from offsets per Rule 1304(c)(5) - Regulatory Compliance for Essential Public Services.

Rule 1401 **Toxics and other Non-Criteria Pollutants** - A Tier II Health Risk Assessment was performed for the boiler, the results are shown below:

For the Boiler, the following are the results:

I used 1,000 feet, (304.8 meters) for both the residential and commercial site receptors:

Residential MICR = 1.56×10^{-8} which is under 1 in a million
Commercial MICR = 1.61×10^{-9} which is under 1 in a million

The Hazard Index yielded the following:

Total HIA = 2.40E-06 which is under 1.0, Total for all Target Organs
Total HIC = 4.24E-04 which is under 1.0, Total for all Target Organs

CONCLUSIONS AND RECOMMENDATIONS:

I recommend that we proceed and issue the revision and Renewal concurrently to Providence Saint Joseph Medical Center's Title V Facility Permit, following a 45-day EPA review.

TIER 1 / TIER 2 SCREENING RISK ASSESSMENT DATA INPUT

Application deemed complete date:	09/18/10
A/N:	512274
Fac:	Providence St. Joseph Med Center

Stack Data		Units
Hour/Day	24	hr/day
Day/Week	7	day/wk
Week/Year	52	wk/yr
Emission Units	lb/hr	
		0
Control Efficiency	0.00	fraction range 0-1
Does source have TBACT?	NO	
Point or Volume Source ?	P	P or V
Stack Height or Building Height	30	feet
Area (For Volume Source Only)		ft^2
Distance-Residential	304.8	meters
Distance-Commercial	304.8	meters
Meteorological Station	Burbank	

Source Type:	B - Boiler	
Screening Mode (**NO** = Tier 1 or Tier 2; **YES** = Tier 3)	NO	

Emission Units	lb/hr	
Source output capacity	21	MMBTU

FOR USER-DEFINED CHEMICALS AND EMISSIONS, FILL IN THE TABLE BELOW

USER DEFINED CHEMICALS AND EMISSIONS				R1 - Uncontrolled	Efficiency Factor	R2 - Controlled
Cmpound Code	Compound	lb/hr	Molecular Weight	lbs/hr	Fraction range 0-1	lbs/hr
				0	0.00000	
				0	0.00000	
				0	0.00000	
				0	0.00000	
				0	0.00000	
				0	0.00000	
				0	0.00000	
				0	0.00000	
				0	0.00000	
				0	0.98000	
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TIER 1 SCREENING RISK ASSESSMENT REPORT

Receptor Distance (actual)	304.8
Receptor Distance (for X/Q LOOKUP)	100

Tier 1 Results	
Cancer/Chronic ASI	**Acute ASI**
2.49E+00	1.07E-01
FAILED	PASSED

APPLICATION SCREENING INDEX CALCULATION

Compound	Average Annual Emission Rate	Max Hourly Emission Rate (lbs/hr)	Cancer / Chronic Pollutant Screening Level (lbs/yr)	Acute Pollutant Screening Level (lbs/hr)	Cancer / Chronic Pollutant Screening Index	Acute Pollutant Screening Index (PSI)
Acetaldehyde	5.42E-01	6.20E-05	8.92E+01		6.07E-03	
Acrolein	4.72E-01	5.40E-05	1.55E+01	5.09E-04	3.04E-02	1.06E-01
Benzene (including benzene from gasoline)	1.01E+00	1.16E-04	8.92E+00	3.96E+00	1.14E-01	2.93E-05
Ethyl benzene	1.21E+00	1.38E-04	1.02E+02		1.18E-02	
Formaldehyde	2.15E+00	2.46E-04	4.25E+01	2.52E-01	5.06E-02	9.77E-04
Hexane (n-)	8.04E-01	9.20E-05	1.81E+06		4.44E-07	
Naphthalene	5.24E-02	6.00E-06	7.44E+00		7.05E-03	
PolyCyclic Aromatic Hydrocarbon (PAHs)	1.75E-02	2.00E-06	7.69E-03		2.27E+00	
Propylene	9.26E+01	1.06E-02	7.75E+05		1.19E-04	
Toluene (methyl benzene)	4.63E+00	5.30E-04	7.75E+04	9.91E+01	5.97E-05	5.35E-06
Xylenes (isomers and mixtures)	3.44E+00	3.94E-04	1.81E+05	5.89E+01	1.90E-05	6.69E-06
TOTAL (APPLICATION SCREENING INDEX)					**2.49E+00**	**1.07E-01**

TIER 2 SCREENING RISK ASSESSMENT REPORT

A/N:	512274
Fac:	Providence St. Joseph Med Center

Application deemed complete date: 09/18/10

2. Tier 2 Data

MET Factor	0.64
4 hr	0.94
6 or 7 hrs	0.84

Dispersion Factors tables

3	For Chronic X/Q
6	For Acute X/Q

Dilution Factors (ug/m3)/(tons/yr)

Receptor	X/Q	X/Qmax
Residential	0.076356944	0.808284303
Commercial	0.076356944	0.808284303

Adjustment and Intake Factors

	AFann	DBR	EVF
Residential	1	302	0.96
Worker	1	149	0.38

3. Rule 1401 Compound Data

Compound	R1 - uncontrolled (lbs/hr)	R2 - controlled (lbs/hr)	CP	MP MICR Resident	MP MICR Worker	MP Chronic Resident	MP Chronic Worker	REL Chronic	REL Acute
Acetaldehyde	6.20E-05	6.20E-05	1.00E-02	1.0000	1.0000	1.0000	1.0000	9	
Acrolein	5.40E-05	5.40E-05		1	1	1	1	0.06	0.19
Benzene (including benzene from gasoline)	1.16E-04	1.16E-04	1.00E-01	1	1	1	1.0000	60	1300
Ethyl benzene	1.38E-04	1.38E-04	8.70E-03	1	1	1	1	2000	
Formaldehyde	2.46E-04	2.46E-04	2.10E-02	1.0000	1.0000	1	1	3	94
Hexane (n-)	9.20E-05	9.20E-05		1.0000	1.0000	1	1	7000	
Naphthalene	6.00E-06	6.00E-06	1.20E-01	1	1	1	1	9	
PolyCyclic Aromatic Hydrocarbon (PAHs)	2.00E-06	2.00E-06	3.90E+00	29.76	14.62107209	1	1		
Propylene	1.06E-02	1.06E-02		1.0000	1.0000	1	1	3000	
Toluene (methyl benzene)	5.30E-04	5.30E-04		1	1	1	1	300	37000
Xylenes (isomers and mixtures)	3.94E-04	3.94E-04		1	1	1.0000	1.0000	700	22000

4. Emission Calculations

Compound	uncontrolled R1 (lb/hr)	controlled R2 (lb/hr)	R2 (lb/yr)	R2 (ton/yr)
Acetaldehyde	6.20E-05	6.20E-05	0.541632	0.000270816
Acrolein	5.40E-05	5.40E-05	0.471744	0.000235872
Benzene (including benzene from gasoline)	1.16E-04	1.16E-04	1.013376	0.000506688
Ethyl benzene	1.38E-04	1.38E-04	1.205568	0.000602784
Formaldehyde	2.46E-04	2.46E-04	2.149056	0.001074528
Hexane (n-)	9.20E-05	9.20E-05	0.803712	0.000401856
Naphthalene	6.00E-06	6.00E-06	0.052416	0.000026208
PolyCyclic Aromatic Hydrocarbon (PAHs)	2.00E-06	2.00E-06	0.017472	0.000008736
Propylene	1.06E-02	1.06E-02	92.6016	0.0463008
Toluene (methyl benzene)	5.30E-04	5.30E-04	4.63008	0.00231504
Xylenes (isomers and mixtures)	3.94E-04	3.94E-04	3.441984	0.001720992
Total	1.22E-02	1.22E-02	1.07E+02	5.35E-02

A/N: 512274 **Application deemed complete date:** 09/18/10

TIER 2 RESULTS

5a. MICR

MICR = CP (mg/(kg-day))^-1 * Q (ton/yr) * (X/Q) * AFann * MET * DBR * EVF * 1E-6* MP

Compound	Residential	Commercial
Acetaldehyde	3.84E-11	7.49E-12
Acrolein		
Benzene (including benzene from gasoline)	7.18E-10	1.40E-10
Ethyl benzene	7.43E-11	1.45E-11
Formaldehyde	3.20E-10	6.24E-11
Hexane (n-)		
Naphthalene	4.46E-11	8.70E-12
PolyCyclic Aromatic Hydrocarbon (PAHs)	1.44E-08	1.38E-09
Propylene		
Toluene (methyl benzene)		
Xylenes (isomers and mixtures)		
Total	**1.56E-08**	**1.61E-09**
	PASS	**PASS**

No Cancer Burden, MICR<1.0E-6

5b. Cancer Burden	**NO**
X/Q for one-in-a-million:	
Distance (meter)	
Area (km2):	
Population:	
Cancer Burden:	

6. Hazard Index

HIA = [Q(lb/hr) * (X/Q)max] * AF / Acute REL

HIC = [Q(ton/yr) * (X/Q) * MET * MP] / Chronic REL

Target Organs	Acute	Chronic	Acute Pass/Fail	Chronic Pass/Fail
Alimentary system (liver) - AL		1.47E-08	Pass	Pass
Bones and teeth - BN			Pass	Pass
Cardiovascular system - CV			Pass	Pass
Developmental - DEV	7.22E-08	8.05E-07	Pass	Pass
Endocrine system - END		1.47E-08	Pass	Pass
Eye	2.32E-04	2.10E-04	Pass	Pass
Hematopoietic system - HEM	6.06E-08	4.13E-07	Pass	Pass
Immune system - IMM	2.18E-06		Pass	Pass
Kidney - KID		1.47E-08	Pass	Pass
Nervous system - NS	1.16E-08	9.13E-07	Pass	Pass
Reproductive system - REP	7.22E-08		Pass	Pass
Respiratory system - RES	2.32E-04	2.12E-04	Pass	Pass
Skin			Pass	Pass

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6a. Hazard Index Acute HIA = [Q(lb/hr) * (X/Q)max] *AF/ Acute REL

	HIA - Residential									
Compound	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Acetaldehyde										
Acrolein				2.30E-04					2.30E-04	
Benzene (including benzene from gasoline)			6.06E-08		6.06E-08	6.06E-08		6.06E-08		
Ethyl benzene										
Formaldehyde				2.12E-06		2.12E-06			2.12E-06	
Hexane (n-)										
Naphthalene										
PolyCyclic Aromatic Hydrocarbon (PAHs)										
Propylene										
Toluene (methyl benzene)			1.16E-08	1.16E-08			1.16E-08	1.16E-08	1.16E-08	
Xylenes (isomers and mixtures)				1.45E-08					1.45E-08	
Total			7.22E-08	2.32E-04	6.06E-08	2.18E-06	1.16E-08	7.22E-08	2.32E-04	

	HIA - Commercial									
Compound	AL	CV	DEV	EYE	HEM	IMM	NS	REP	RESP	SKIN
Acetaldehyde										
Acrolein				2.30E-04					2.30E-04	
Benzene (including benzene from gasoline)			6.06E-08		6.06E-08	6.06E-08		6.06E-08		
Ethyl benzene										
Formaldehyde				2.12E-06		2.12E-06			2.12E-06	
Hexane (n-)										
Naphthalene										
PolyCyclic Aromatic Hydrocarbon (PAHs)										
Propylene										
Toluene (methyl benzene)			1.16E-08	1.16E-08			1.16E-08	1.16E-08	1.16E-08	
Xylenes (isomers and mixtures)				1.45E-08					1.45E-08	
Total			7.22E-08	2.32E-04	6.06E-08	2.18E-06	1.16E-08	7.22E-08	2.32E-04	

6b. Hazard Index Chronic

HIC = [Q(ton/yr) * (X/Q) * MET * MP] / Chronic REL

	HIC - Residential												
Compound	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Acetaldehyde												1.47E-06	
Acrolein						1.92E-04						1.92E-04	
Benzene (including benzene from gasoline)				4.13E-07			4.13E-07			4.13E-07			
Ethyl benzene	1.47E-08			1.47E-08	1.47E-08				1.47E-08				
Formaldehyde						1.75E-05						1.75E-05	
Hexane (n-)										2.81E-09			
Naphthalene												1.42E-07	
PolyCyclic Aromatic Hydrocarbon (PAHs)													
Propylene												7.54E-07	
Toluene (methyl benzene)				3.77E-07						3.77E-07		3.77E-07	
Xylenes (isomers and mixtures)										1.20E-07		1.20E-07	
Total	1.47E-08			8.05E-07	1.47E-08	2.10E-04	4.13E-07		1.47E-08	9.13E-07		2.12E-04	

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6b. Hazard Index Chronic (cont.)

	HIC - Commercial											
Compound	AL	BN	CV	DEV	END	EYE	HEM	IMM	KID	NS	REP	RESP	SKIN
Acetaldehyde												1.47E-06	
Acrolein						1.92E-04						1.92E-04	
Benzene (including benzene from gasoline)				4.13E-07			4.13E-07			4.13E-07			
Ethyl benzene	1.47E-08			1.47E-08	1.47E-08				1.47E-08				
Formaldehyde						1.75E-05						1.75E-05	
Hexane (n-)										2.81E-09			
Naphthalene												1.42E-07	
PolyCyclic Aromatic Hydrocarbon (PAHs)													
Propylene												7.54E-07	
Toluene (methyl benzene)				3.77E-07						3.77E-07		3.77E-07	
Xylenes (isomers and mixtures)										1.20E-07		1.20E-07	
Total	1.47E-08			8.05E-07	1.47E-08	2.10E-04	4.13E-07		1.47E-08	9.13E-07		2.12E-04	

BOILER DATA

Max burner rating	21,000,000	BTU/hr
Fuel HHV	1050	btu/ft3
Fuel rate	20,000	ft3/hr
MM cf fuel rate	0.020000	mmcf/hr
VOC control (Rule 1401)		percent eff

Compound	EF (lb/mmcf)	R1 (lb/hr)	R2 (lb/hr)	NSR Data Entry (E-06 lb/hr)	
				R1	R2
Acetaldehyde	3.10E-03	0.000062	0.000062	62.0000	62.0000
Acrolein	2.70E-03	0.000054	0.000054	54.0000	54.0000
Benzene (including benzene from gasoline)	5.80E-03	0.000116	0.000116	116.0000	116.0000
Ethyl benzene	6.90E-03	0.000138	0.000138	138.0000	138.0000
Formaldehyde	1.23E-02	0.000246	0.000246	246.0000	246.0000
Hexane (n-)	4.60E-03	9.20000E-05	9.20000E-05	92.0000	92.0000
Naphthalene	3.00E-04	0.000006	0.000006	6.0000	6.0000
PolyCyclic Aromatic	1.00E-04	0.000002	0.000002	2.0000	2.0000
Propylene	5.30E-01	0.0106	0.0106	10600.0000	10600.0000
Toluene (methyl benzene)	2.65E-02	0.00053	0.00053	530.0000	530.0000
Xylenes (isomers and mixtures)	1.97E-02	3.94000E-04	0.000394	394.0000	394.0000

FACILITY PERMIT TO OPERATE
PROVIDENCE SAINT JOSEPH MEDICAL CENTER

Facility Equipment and Requirements
(Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

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PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
112249	M34972	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
112250	M34973	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
112251	M34974	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
512274		BOILER, NAT GAS & LPG, > 20=50 MMBTU/HR
223444	D61639	BOILER, NAT GAS & LPG, > 20=50 MMBTU/HR
254785	D45171	ICE (50-500 BHP), EM ELECTRICAL, GEN, DIESEL
276927	D69668	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
416712	F63507	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
C43799	D13392	BAGHOUSE, AMBIENT TEMP. (>100-500 SQ.FT.)

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:

   A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
   B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION. [RULE 401]

2 THE OPERATOR SHALL ONLY USE DIESEL FUEL WITH A SULFUR CONTENT THAT DOES NOT EXCEED 15 PPM BY WEIGHT, UNLESS THE OPERATOR DEMONSTRATES IN WRITING TO THE EXECUTIVE OFFICER THAT SPECIFIC ADDITIONAL TIME IS NECESSARY. [RULE 431.2]

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PERMIT TO OPERATE

Permit No. M34972
A/N 112249

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 2, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. D398, SERIAL NO. 352773, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, INTERCOOLED, 850 BHP.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]

4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]

5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

6. OPERATION OF THE ENGINE BEYOND 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]

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7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470. [RULE 1470]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE
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PERMIT TO OPERATE

Permit No. M34973
A/N 112250

Equipment Description:

INTERNAL COMBUSTION ENGINE, DETROIT DIESEL ALLISON, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 7163-7200, SERIAL NO. 16VA111, TWIN SUPERCHARGED, DIESEL-FUELED, 12 CYLINDERS, 570 BHP.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]

4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]

5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

6. OPERATION OF THE ENGINE BEYOND 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]

FACILITY PERMIT TO OPERATE
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7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470. [RULE 1470]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE
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PERMIT TO OPERATE

Permit No. M34974
A/N 112251

Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 1, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. D398, SERIAL NO. 66B3234, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, INTERCOOLED, 850 BHP.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]

4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]

5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

6. OPERATION OF THE ENGINE BEYOND 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]

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7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470. [RULE 1470]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

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PERMIT TO OPERATE

Permit No.
A/N 512274

Equipment Description:

BOILER, NO. 1, CLEAVER BROOKS, FIRE-TUBE TYPE, MODEL NO. CBW 700-500, SERIAL NO. B015530-91, 21,000,000 BTU PER HOUR, WITH A LOW NOX BURNER, S.T. JOHNSON COMPANY, MODEL NO. NOXMATIC A-TYPE-500, NATURAL GAS OR PROPANE FIRED, AND A 15-HP COMBUSTION AIR BLOWER, 25-HP FORCED FLUE GAS RECIRCULATION SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
   [RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
   [RULE 204]

3. THIS BOILER AND BOILER NO. 2 (A/N 223444) SHALL NOT HAVE A COMBINED HEAT INPUT OF MORE THAN 453,600,000 BTU IN ANY ONE DAY.
   [RULE 1303(a) (1)-BACT]

4. THE BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING METER FOR EACH FUEL SUPPLIED TO THE BOILER. THE METER MAY BE COMMON WITH BOILER NO. 2 (A/N 223444).
   [RULE 1303(a) (1)-BACT]

5. THIS BOILER SHALL EMIT NO MORE THAN 9 PPM FOR OXIDES OF NITROGEN (NOX) CALCULATED AS NO2, AND 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN WHEN FIRING ON NATURAL GAS.
   [RULE 1146]

6. THE OWNER OR OPERATOR OF THIS BOILER SHALL ARRANGE FOR A CERTIFIED BOILER TECHNICIAN TO PERFORM TWICE YEARLY BOILER TUNE-UPS IN ACCORDANCE WITH ATTACHMENT 1 OF RULE 1146. THE BOILER TUNE-UP RECORDS SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
   [RULE 1146]

7. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION 6 ABOVE FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
   [RULE 1146]

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8. THIS BOILER SHALL BE FIRED WITH NATURAL GAS OR PROPANE ONLY.
[RULE 1303(a) (1)-BACT]

9. THIS BOILER SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1146
[RULE 1146]

10. THE OWNER OF OPERATOR OF THE EQUIPMENT SHALL CONDUCT A SOURCE TEST UNDER THE FOLLOWING CONDITIONS:

A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 30 DAYS AFTER ACHIEVING MAXIMUM PRODUCTION RATE AT WHICH THE EQUIPMENT WILL BE OPERATED, BUT NO LATER THAN 90 DAYS AFTER INITIAL START-UP.

B. THE SOURCE TEST SHALL BE DONE TO VERIFY COMPLIANCE PERMIT CONDITION NO. 5.

C. THE SOURCE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1.

D. THE TEST SHALL BE CONDUCTED FOR 15 MINUTES EACH WHILE FIRING AT MAXIMUM, MINIMUM, AVERAGE AND NORMAL FIRING LOAD.

E. TWO COMPLETE COPIES OF SOURCE TEST REPORTS (INCLUDE THE APPLICATION NUMBER AND A COPY OF THE PERMIT IN THE REPORT) SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, ATTN: FRANCISCO ESCOBAR, P.O. BOX 4941, DIAMOND BAR, CA 91765).

THE RESULTS IN WRITING SHALL BE SUBMITTED WITHIN 45 DAYS AFTER THE SOURCE TEST IS COMPLETED. IT SHALL INCLUDE, BUT NOT LIMITED TO EMISSIONS RATE IN POUNDS PER HOUR AND CONCENTRATION IN PPMV AT THE OUTLET OF THE BOILER.

F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.

G. SAMPLING FACILITIES SHALL COMPLY WITH THE ATTACHED AQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES", PURSUANT TO RULE 217.
[RULE 3004 (a)(4)]

Periodic Monitoring:

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

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12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD.. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

Emissions And Requirements:

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 30 PPMV, RULE 1146
NOx: 9 PPMV, RULE 1146 by 1/1/2012
CO: 400 PPMV, RULE 1146
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

FACILITY PERMIT TO OPERATE
PROVIDENCE SAINT JOSEPH MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D61639
A/N 223444

Equipment Description:

BOILER, NO. 2, CLEAVER BROOKS, FIRE-TUBE TYPE, MODEL CBW 700-500, 21,000,000 BTU PER HOUR, WITH A CLEAVER BROOKS NATURAL GAS OR PROPANE FIRED BURNER, AND A 15-HP COMBUSTION AIR BLOWER, 25-HP FORCED FLUE GAS RECIRCULATION SYSTEM AND OXYGEN TRIM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER STACK GAS EXHAUST TEMPERATURE EXCEEDS 195 DEGREES FAHRENHEIT.
[RULE 1146]

4. A MEASURING DEVICE SHALL BE MAINTAINED TO ACCURATELY MEASURE THE BOILER STACK GAS EXHAUST TEMPERATURE.
[RULE 1146]

5. THIS BOILER AND BOILER NO. 1 (A/N 223443) SHALL NOT HAVE A COMBINED HEAT INPUT OF MORE THAN 453,600,000 BTU IN ANY ONE DAY.
[RULE 1303(a) (1)-BACT]

6. THE BOILER SHALL BE EQUIPPED WITH A NON-RESETTABLE, TOTALIZING METER FOR EACH FUEL SUPPLIED TO THE BOILER. THE METER MAY BE COMMON WITH BOILER NO. 1 (A/N 223443).
[RULE 1303(a) (1)-BACT]

7. THIS BOILER SHALL BE FIRED WITH NATURAL GAS OR PROPANE ONLY.
[RULE 1303(a) (1)-BACT]

8. THIS BOILER SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1146
[RULE 1146]

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9. THE OWNER OR OPERATOR OF THIS BOILER SHALL ARRANGE FOR A CERTIFIED BOILER TECHNICIAN TO PERFORM TWICE YEARLY BOILER TUNE-UPS IN ACCORDANCE WITH ATTACHMENT 1 OF RULE 1146. THE BOILER TUNE-UP RECORDS SHALL BE MAINTAINED FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

10. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION 9 ABOVE FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

Periodic Monitoring:

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD.. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

Emissions And Requirements:

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 30 PPMV, RULES 1146 & 1303 (a)(1) - BACT
CO: 400 PPMV, RULE 1146
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

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PERMIT TO OPERATE

Permit No. D45171
A/N 254785

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3406 BTA, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 439 BHP.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]

4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]

5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]

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7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470. [RULE 1470]

8. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING. [RULE 1110.2]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE
PROVIDENCE SAINT JOSEPH MEDICAL CENTER

PERMIT TO OPERATE

Permit No. D69668
A/N 276927

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3512, SERIAL NO. 24203833, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 1,786 BHP.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]

4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]

5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]

FACILITY PERMIT TO OPERATE
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7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470. [RULE 1470]

8. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING. [RULE 1110.2]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE
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PERMIT TO OPERATE

Permit No. F63507
A/N 416712

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3516B, DIESEL-FUELED, 16 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 2,499 BHP.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]

4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]

5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]

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7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULE 1470. [RULE 1470]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS
VOC: 1.0 GM/BHP-HR, RULE 1303 (a)(1) – BACT
NOX: 6.9 GM/BHP-HR, RULE 1303 (a)(1) – BACT
CO: 8.5 GM/BHP-HR, RULE 1303 (a)(1) – BACT
PM: 0.4 GM/BHP-HR, RULE 1303 (a)(1) – BACT

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PERMIT TO OPERATE

Permit No. D13392
A/N C43799

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BAGHOUSE, MICRO-PULSAIRE, TYPE 97-8 220, SERIAL NO. 72H1549 WITH A 1/2 H.P. DRIVE MOTOR AND A BOTTOM DISCHARGE HOPPER WASH UNIT.
2. EXHAUST SYSTEM WITH A 150 H.P. BLOWER VENTING A PNEUMATIC TRASH COLLECTION SYSTEM CYCLONE SEPARATOR.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. A MECHANICAL GAUGE SHALL BE MAINTAINED SO AS TO INDICATE, IN INCHES WATER COLUMN (W.C), THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.
[RULE 404]

4. THE CLOTH FILTER BAGS MUST BE CLEANED WHEN THE PRESSURE DROP ACROSS THE BAGS REACHES 3.5" W.C.
[RULE 404]

Periodic Monitoring:

5. THE OPERATOR SHALL DISCHARGE DUST COLLECTED IN THIS EQUIPMENT ONLY INTO CLOSED CONTAINERS.
[RULE 3004(a)(4)]

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6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM THE EQUIPMENT AT ALL POTENTIAL POINTS WHERE PARTICULATE EMISSIONS MAY BE RELEASED, WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.

   THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

   A. STACK OR EMISSION POINT IDENTIFICATION;

   B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND

   C. DATE AND TIME VISIBLE EMISSION WAS ABATED.
   [RULE 3004 (a) (4)]

Emissions And Requirements:

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
   PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, PRINTING EQUIPMENT, LOW USE OR EMISSIONS

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   VOC: RULE 1130, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 109

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RULE 219 EQUIPMENT

RULE 219 EXEMPT EQUIPMENT, WELDING, BRAZING, AND SOLDERING EQUIPMENT.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE
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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   HALON: RULE 1418

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   CR^{+6}: RULE 1404

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

   FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.
   [RULE 3004 (a) (4)]

Emissions And Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS